

Title (en)

CONSTANT TORQUE CONTROL OF A WIND TURBINE USING AN ENERGY STORAGE SYSTEM

Title (de)

KONSTANTE DREHMOMENTSTEUERUNG EINER WINDENERGIEANLAGE MIT EINEM ENERGIESPEICHERSYSTEM

Title (fr)

COMMANDE DE COUPLE CONSTANT D'UNE ÉOLIENNE EN UTILISANT UN SYSTÈME DE STOCKAGE D'ÉNERGIE

Publication

EP 3724487 C0 20230607 (EN)

Application

EP 18803862 A 20181108

Priority

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- DK 2018050291 W 20181108

Abstract (en)

[origin: WO2019114894A1] A method for controlling a wind turbine (2) is disclosed. During full load operation, a power reference value, Pref, representing a power level to be supplied to the power grid by the wind turbine (2), is received, and the wind turbine (2) is controlled in order to produce an output power which is at or near the power reference value, Pref, while maintaining a constant torque on the generator (6). In the case that the produced output power of the wind turbine (2) exceeds the power reference value, Pref, excess produced energy is stored in the energy storage system (10), and in the case that the produced output power of the wind turbine (2) is below the power reference value, Pref, stored energy is retrieved from the energy storage system (10). A power level being equal to the power reference value, Pref, is supplied to the power grid.

IPC 8 full level

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CPC (source: EP US)

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